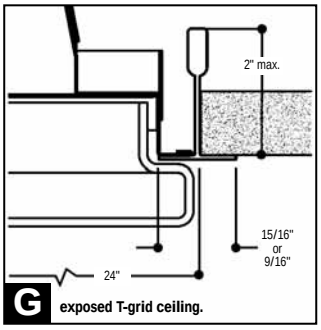
Architectural Recessed Fluorescent
2' x 2' with Frost White Acrylic Lens, 2 Lamp TT5

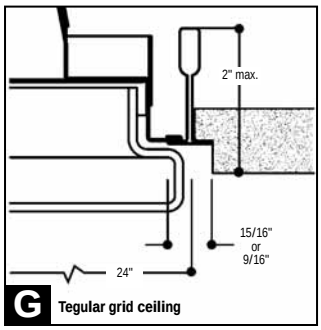
Features

- Ideal for boardrooms, entrances and other spaces seeking a clean architectural look.
- Frost White DR acrylic lens.
- Can be mounted in patterns, end to end or side to side.
- Blends in with regular flat-edge and aesthetic recessed-edge ceiling tiles.
- 74.0% efficient (2 Lamp 25 watt TT5)
- 63.5% efficient (2 Lamp 40 watt TT5)
- 5" deep body.
- One piece housing.
- Black exterior for cooler ballast operating temperature.
- Built-in earthquake clips (patent no. 5,072,344).
- Spring loaded latches/hinge.
- Lens encloses lamp compartment.
- Lens opens from either side.
- Ballast accessible from room side.
- Wiring access plate standard.
- Construction to meet NYC Code or Chicago Plenum available.

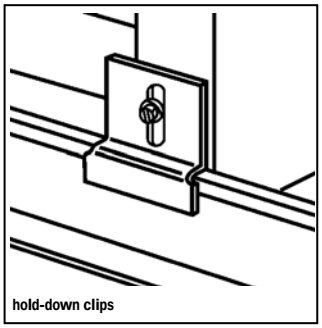
Mounting Methods



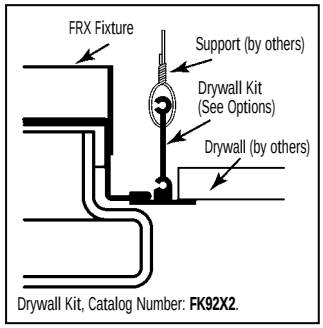
G exposed T-grid ceiling.



G Tegular grid ceiling



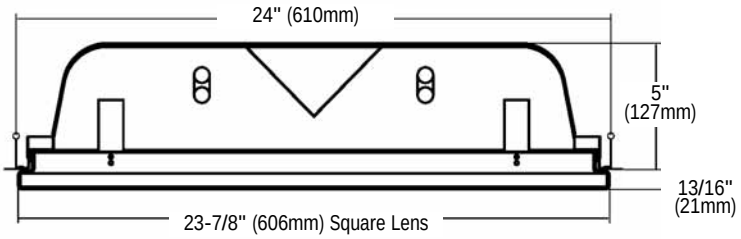
hold-down clips

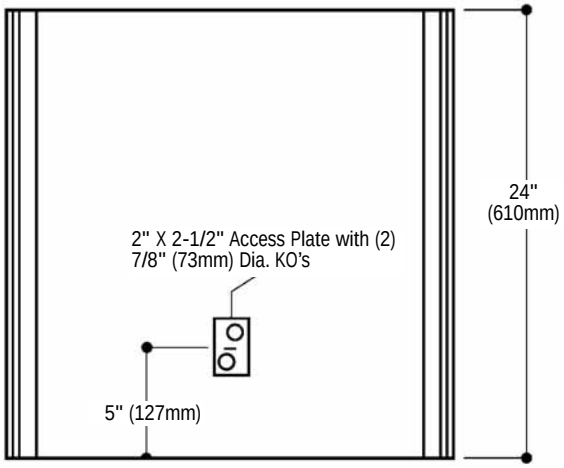


Drywall Kit, Catalog Number: **FK92X2**.

Expample of pattern mounting

Dimensions





Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

For Factory Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

11/08

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Section 5/Folio MA10-12

Architectural Recessed Fluorescent
2' x 2' with Frost White Acrylic Lens, 2 Lamp TT5

Model No. FRS2GFW2FTUNVIB (25 watt lamp)

LER = FP - 59.1 IW - 59.9 BF - 0.92
Comparative yearly lighting energy cost per 1000 lumens = $4.06

Report Number: G2008273
Catalog Number: FRS2GFW2FTUNVIB
Lamps: (2) PL-L40/835/XEW/4P/RS/IS 25W
Luminaire: FRX Architectural Recessed 2' x 2' fixture with acrylic lens.
Ballast: ICN-2TTP40-SC
Report is based on 2600 Lumens per lamp.
Efficiency: 74.0%

CIE Type-Direct-Indirect

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.2
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	21.600	21.600

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1421	1421	1421	
5	1407	1406	1407	134
15	1341	1339	1339	378
25	1241	1227	1227	566
35	1084	1078	1074	675
45	903	897	888	692
55	697	693	676	616
65	469	470	444	458
75	236	244	212	251
85	68	70	48	79
90	52	52	31	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	81	77	74	72	70	68	69	67	66
2	73	67	62	63	59	56	61	57	55
3	67	59	53	56	51	47	54	50	46
4	61	52	46	49	44	40	48	43	39
5	56	47	40	44	39	35	43	38	34
6	52	42	36	40	35	30	38	34	30
7	48	38	32	36	31	27	39	30	27
8	45	35	29	33	28	24	35	28	24
9	42	32	26	31	25	22	32	25	22
10	39	30	24	28	23	20	28	23	20

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1078	20.7	28.0
0- 40	1753	33.7	45.5
0- 60	3061	58.9	79.5
0- 90	3849	74.0	100.0
90-180	0	0.0	0.0
0-180	3849	74.0	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	4104.	4077.	4036.
55	3852.	3830.	3736.
65	3440.	3447.	3256.
75	2693.	2784.	2419.
85	1876.	1931.	1324.

Model No. FRS2GFW2FTUNVIB (40 watt lamp)

LER = FP - 55.5 IW - 69.5 BF - 0.92
Comparative yearly lighting energy cost per 1000 lumens = $4.26

Report Number: G2008272
Catalog Number: FRS2GFW2FTUNVIB
Lamps: (2) PL-L40/835/RS/IS
Luminaire: FRX Architectural Recessed 2' x 2' fixture with acrylic lens.
Ballast: ICN-2TTP40-SC
Report is based on 3300 Lumens per lamp.
Efficiency: 63.5%

CIE Type-Direct-Indirect

Plane:	0-Deg	90-Deg
Spacing Criteria:	1.2	1.2
Shielding Angles:	90	90
Plane:	0-Deg	90-Deg
Luminous Length:	21.600	21.600

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1512	1512	1512	
5	1500	1499	1500	143
15	1434	1432	1433	405
25	1322	1318	1318	608
35	1169	1162	1159	728
45	980	971	963	750
55	764	756	737	673
65	523	519	490	507
75	275	279	242	287
85	83	85	62	93
90	55	56	33	

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			50			30		
RW	70	50	30	50	30	10	50	30	10
1	69	66	63	62	60	58	59	58	56
2	63	57	53	54	51	48	52	49	47
3	57	50	45	48	43	40	46	42	39
4	52	45	39	42	38	34	41	37	34
5	48	40	34	38	33	29	37	32	29
6	44	36	30	34	29	26	33	29	26
7	41	33	37	31	26	23	30	26	23
8	38	30	24	28	24	20	28	23	20
9	36	26	22	26	22	18	26	21	18
10	34	25	20	24	20	17	24	20	17

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1155	17.5	27.6
0- 40	1883	28.5	44.9
0- 60	3306	50.1	78.8
0- 90	4194	63.5	100.0
90-180	0	0.0	0.0
0-180	4194	63.5	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	4454.	4413.	4377.
55	4223.	4178.	4073.
65	3836.	3806.	3594.
75	3138.	3184.	2762.
85	2290.	2345.	1711.

Ordering Information

Explanation of Catalog Number. Example: FRS2GFW2FTUNVIB

	S	2	G	F	W	2	FT			
FRX Architectural Recessed Fluorescent	**Body Style:** **S** = Static	**Fixture Width**	**Ceiling Type:** **G** = Standard Grid	**Lens:** **F**= Frost White Acrylic Lens	**Reflector:** White	**Lamp Quantity** **2**=2 Lamp	**Lamp:** (By Others) **FT** = Twin Tube T5	**Voltage:** 120, 277 or **UNV**=120-277	**Ballast Type:**	**Options:** Add appropriate suffix to catalog no., ie: (A)

FR	Standard FRX	
FY	For NYC Code – I.B.E.W. Manufactured	
FN	For NYC Code – Local 3 Manufactured 5½" Deep Body	

Ballast Type:

	<20THD	<10THD
2 Lamp Elec. TT5 (25 or 40 Watt)	**SB***	**IB***
2 Lamp Elec. TT5 (40 Watt)	–	**PR†**
2 Lamp Elec. TT5 (50 Watt)	**BE**	–
2 Lamp Elec. TT5 (55 Watt)	–	**BF**
LOL Dimming TT5	**PB**	–

*Instant Start Standard.
Other dimming options. Consult factory.
NOTE:
For TT5 40W **UNV**, you must use PR Ballast Code.
†Program Rapid Start

Options/Accessories

Fusing: Internal fast blow fusing: SUFFIX: **A**.
Internal slow blow fusing: SUFFIX: **C**.
Drywall Kit: Order Catalog Number: **FK92X2**.
Electrical Wiring Options: Consult factory.
For motion or light sensor: See Folio OA20-10 and OA20-30.

Specifications

Performance: In an installation of 2 lamp 25W luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .77. To reduce glare the average brightness at 65° shall not exceed 3447 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 72.0%.
Lamp Shield: Frost white DR acrylic lens.
Materials: **Chassis parts** are die-formed code gauge cold rolled steel. Housing is ribbed for rigidity with side rails hemmed over and housing ends turned-in for safe handling.
Finish: **Chassis exterior**–black baked polyester enamel. **Cavity**–white baked polyester enamel minimum 86% reflectance. Rust preventative undercoating.

Specifications (continued)

Electrical: Thermally protected class "P' ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
UL Listed for damp locations.
Labels: I.B.E.W./UL and ULc Listed.
This product may have a mercury containing lamp. Manage in accord with Disposal Laws. See: www.lamprecycle.org

Job Information **Type:**

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